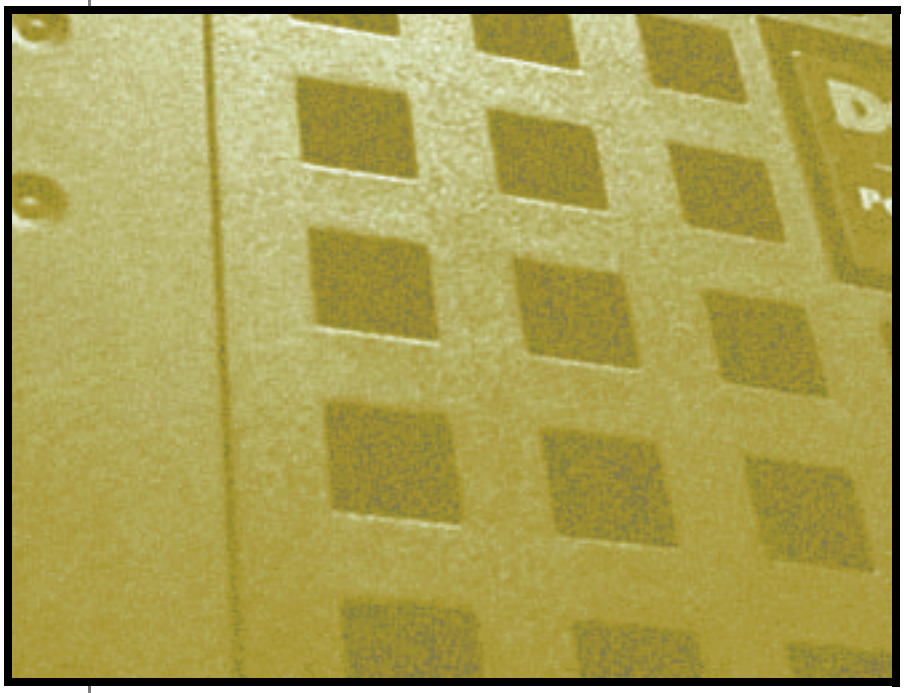
Dell™ PowerEdge™ 2450 Systems

TWO-POST RACK INSTALLATION



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Notes, Notices, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, notices, cautions, and warnings, and they are used as follows:

NOTE: A NOTE indicates important information that helps you make better use of your computer system.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

WARNING: A WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious bodily injury.

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Dell™ PowerEdge™ 2450 Systems Two-Post Rack Installation

This document provides instructions for installing a Dell PowerEdge 2450 system in a two-post open-frame relay rack, such as those found in telecommunications equipment facilities.

The two-post open-frame relay rack must be properly secured to the floor, to the ceiling or upper wall, and where applicable, to adjacent racks, using floor and wall fasteners and bracing specified or approved by the rack manufacturer or by industry standards. Refer to the two-post open-frame relay rack manufacturer's installation documentation for precautionary warnings and information before attempting this installation.

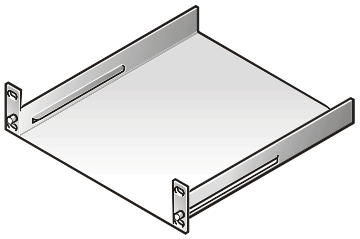
CAUTION: Do not attempt to install the PowerEdge system into a two-post open-frame relay rack that has not been securely anchored in place. Damage to the system and personal injury may result.

Refer to the safety instructions in your Dell system documentation for additional safety information regarding rack installation.

Rack Kit Components

The rack kit includes the following items (see Figure 1):

- One tray assembly (PowerEdge 2450 two-post)
- Four 12-24 x 0.5-inch pan-head Phillips screws



tray assembly

12-24 x 0.5 inch pan-head screw

Figure 1. Rack Kit Contents

Recommended Tools

You need the following tools and equipment to install the system in a two-post open-frame relay rack:

- #2 Phillips screwdriver
- Masking tape and/or felt-tip marker pen, for use in marking the mounting holes to be used

Marking the Rack

1. Determine where you want to place the bottom of the 2-U support tray.
2. Mark the top and bottom holes on the rack.

   Each 1-U (1.75-inch) vertical space has three holes, with center-to-center spacing between holes (beginning at the top of a 1-U space) of 0.625, 0.625, and 0.5 inches (see Figure 2).

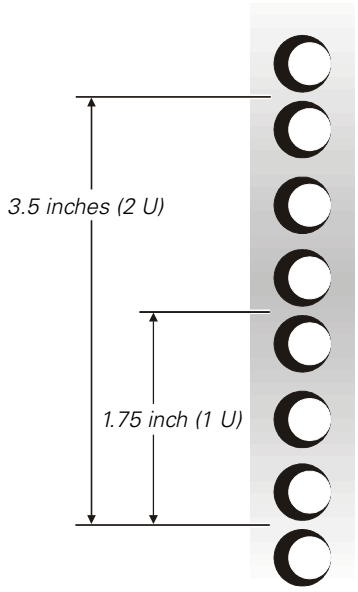


Figure 2. Two-Post Open-Frame Relay Rack 1-U Hole Spacing

Installing the Support Tray in the Rack

CAUTION: The 2-U support tray is designed to support a single PowerEdge 2450 system. Do not attempt to install any other system in this support tray. Damage to the system and personal injury may result.

1. Place the support tray into the rack with the bottom of the tray at the marks you made earlier for the location of the bottom of the installed system.

2. Install four 12-24 x 0.5-inch screws provided to secure the support tray using the top and the bottom holes on the support tray's front-mounting flange (see Figure 3).

   An internally threaded stud projecting from the front of the tray flanges accepts the captive fastener on the front of the PowerEdge server.

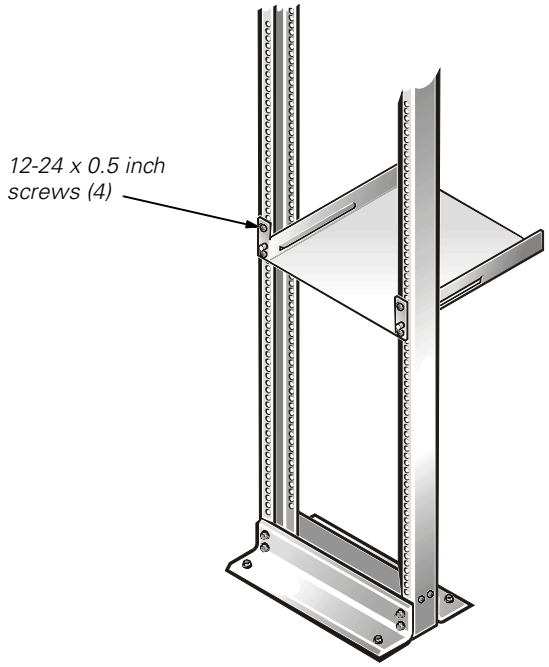


Figure 3. Installing the Support Tray in the Rack

Installing the System in the Rack

CAUTION: Due to the size and weight of the computer system, never attempt to install the computer system by yourself.

1. If your system has an optional plastic bezel, remove it (see the *Installation and Troubleshooting Guide* for instructions).
2. Lift the system into position on the support tray.
3. Slide the system completely into position and secure it to the rack using the captive fasteners at the lower edge of the front panel (see Figure 4).

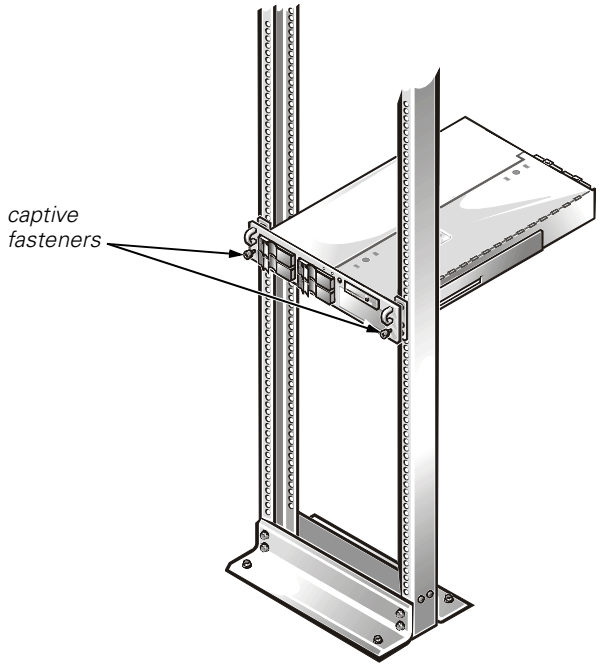


Figure 4. Securing the Computer System in the Rack

4. Attach the front bezel, if one is available, to the system (see the *Installation and Troubleshooting Guide* for instructions).

   This completes the two-post rack installation.